

The logo for 'enzen' is a white hexagon with a thin white border, containing the word 'enzen' in a lowercase, sans-serif font. It is positioned on an orange background that has a decorative, angular shape extending from the left edge of the page.

Power System Design Engineer

Band: 3.3 - Senior Consultant

Location: Leeds

Hybrid: Work from client office when required

Reports to: Ashim Jafarkhan - Account Manager

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About Enzen

Enzen is a global knowledge enterprise that focuses on gaining, refining and sharing expertise in the energy and utility sector. It provides strategic advisory and delivery of outcome-driven solutions to leading businesses, governments, non-governmental organisations and not-for-profits.

We work with customers across the value chain to deliver sustainable and lasting improvements to their efficiency and performance, adding value to their bottom line. Enzen is unique in providing a wide range of strategic advisory, engineering services and solutions end-to-end for the power, water, gas and renewable energy sectors, supported by our specialised Centres of Excellence.

Founded in 2006, the business has since grown and developed across the globe, with a presence in Australia, India, Portugal, Spain, Turkey, the UK and USA.

Role Summary

The Power System Design Engineer will perform all pre-approval life cycle stage activities for EHV and HV/LV systems for a DNO reporting to a design manager. He will also be responsible to carry out Power Systems studies and analysis deploying standard Power System Tools, to enunciate and validate the final technical design along with drawings and specifications. He will work with internal teams at the DNO, and with vendors as needed, to arrive at commercial options and document them. He/she shall interact with the end customers of the DNO for approval / reviewing of the design drawings and specifications along with investment plans periodically. Any candidates with specialised experience in HV/LV systems, and not EHV systems, will also be considered.

Key Responsibilities

- Stringent analysis of the present network to identify the challenges faced and to reengineer the electrical scheme to meet the techno commercial / regulatory needs, in As-Is condition, at all voltage levels from LV to EHV, holistically.
- Design of adequate electrical schemes for futuristic networks including constraint analysis and operation with infusion of DER etc.
- Carrying out important System Studies namely Load flow and fault level analysis, Protection Coordination, Load Related Network Reinforcement, Demand Forecasting, Voltage stability etc.
- Analysing / Interpreting the results of the power system simulation software, appropriate for design electrical schemes
- Prepare the technical design of the futuristic network along with the drawings and the specifications.
- Summarizing the results of all analytical studies and preparation of technical report
- Establish logistic evidence for Investment plan
- Deliberation of the technical design, drawings, detailed specification etc. with the customers for acceptance or to understand any deviations to match the local needs. The job done shall be moderated to include the suggestions and finalise the techno economic proposal.

Desired Experience

- Experience working as a design engineer/manager for a DNO in EHV systems or HV/LV systems will be given high weightage
- Preparation of Technical design reports for Distribution sector (LV up to EHV/132kV).
- Working knowledge of Transmission and distribution systems including network protection & Re-Reinforcement schemes.
- Conducting power systems studies namely Load flow and fault analysis etc. deploying standard and reputed power system evaluation tools. Experience in using a power flow modelling tool such as IPSA, DINIS, PSSE etc will be beneficial.
- Analysis of Power Systems studies results and validates them with the historical and ground network / assets performance parameters.
- Familiarity with creating technical options and corresponding commercial options for the end customers of DNOs
- Good communication skills with leadership qualities for team working culture, ability to generate techno economic reports with apt writing skills.